

## ABSTRACT

A low dropout voltage regulator (LDO) includes a regulating circuit, an amplifier, and a first compensating path. The regulating circuit is configured to receive an input signal at an input terminal and provide an output signal at an output terminal in response to a control signal received at the control terminal. The amplifier may have a first input terminal coupled to a first input path and an output terminal be coupled to the control terminal of the regulating circuit via a path to provide the control signal. The first compensating path is coupled between a first node on the first input path and a first node on the path coupling the output terminal of the amplifier to the control terminal of the regulating circuit, the first compensating path including a first compensating capacitor.